BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, YELAHANKA DIVISION

Name of Work: Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-1)

DETAILED ESTIMATE

Estimated Cost= 23398668.00

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
		Cum							
	For Desilting of Drain								
	BB Road at Railway Underpass near Police Station								
	Rhs		1	30.00	1.00	0.75	22.50		
			1	19.00	1.00	0.75	14.25		
	Lhs								
			1	30.00	1.00	0.70	21.00		
	Debries Clearence		1	15.00	1.00	0.70	10.50		
	New RCC Drain		2	22.00	1.20	0.30	15.84		
	Bharath Gowda Layout								
	Bharath Gowda Layout Main Road from Winmore Academy to 2nd Cross Road								
		Lhs	1	46.00	1.10	1.10	55.66		
		Rhs	1	60.00	1.10	1.00	66.00		
	1st Cross Road from Layout Main Road to SS Elite Apartment								
		Lhs	1	160.40	1.10	0.90	158.80		
		Rhs	1	160.40	1.10	0.99	158.80		
	2nd Cross Road from Layout Main Road to Dead end								
		Lhs	1	115.00	1.10	0.90	113.85		
		Rhs	1	115.00	1.10	0.90	113.85		
	Park Parallel Road from Winmore Academy								
		Rhs	1	102.00	1.10	0.90	100.98		
		Lhs	1	101.00	1.10	0.90	99.99		
	Culvert In Layout Main Road								
	Ayyappa Temple Surrounding		1	7.50	1.26	1.00	9.45		
	Road-1 from NH-7 Service Road to SWD								
		Rhs	1	86.00	0.95	1.10	89.87		
		Rhs	1	245.00	0.85	0.85	177.01		
	Road-2								
		Rhs	1	126.00	1.20	1.10	166.32		
	Road-3 from Road-2 to Road-4								
		Rhs	1	27.00	0.95	1.10	28.22		
	Road-4								

o	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		Rhs	1	89.00	1.20	1.10	117.48		
		LHS	1	95.00	0.95	1.10	99.28		
	Road-5								
		Rhs	1	152.00	1.20	1.10	200.64		
		Lhs	1	152.00	1.20	1.10	200.64		
	Culvert								
	In Road-1		1	4.50	1.30	1.10	6.44		
	In Road-1		1	5.00	1.30	1.10	7.15		
	In Road-2		1	5.70	1.30	1.10	8.15		
	In Road-4		1	6.20	1.30	1.10	8.87		
	Total Quantity						**2071.52**		
	Total Schedule B Quantity						**2100.54**		
	Quantity Upto 125%						**2071.52**	**217.98**	**451549.17**
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
		Cum							
	For Kerb Stone								
	LHS		1	30.00	0.20	0.10	0.60		
			1	15.00	0.20	0.10	0.30		
			1	10.00	0.20	0.10	0.20		
			1	30.00	0.20	0.10	0.60		
			1	30.00	0.20	0.10	0.60		
			1	30.00	0.20	0.10	0.60		
			1	4.00	0.20	0.10	0.08		
			1	30.00	0.20	0.10	0.60		
			1	30.00	0.20	0.10	0.60		
			1	5.00	0.20	0.10	0.10		
	RHS								
			1	30.00	0.20	0.10	0.60		
			1	30.00	0.20	0.10	0.60		
			1	30.00	0.20	0.10	0.60		
			1	8.00	0.20	0.10	0.16		
			1	30.00	0.20	0.10	0.60		
	For Footpath		1	13.00	0.20	0.10	0.26		
	BB Road at Railway Underpass near Police Station								
	LHS		1	30.00	1.45	0.25	10.88		
			1	30.00	1.45	0.25	10.88		
			1	30.00	1.45	0.25	10.88		
			1	4.00	1.45	0.25	1.45		
			1	30.00	1.40	0.25	10.50		
			1	30.00	1.40	0.25	10.50		
	RHS		1	4.80	1.40	0.25	1.68		
			1	30.00	1.40	0.25	10.50		
			1	30.00	1.40	0.25	10.50		
			1	30.00	1.40	0.25	10.50		
			1	8.00	1.40	0.25	2.80		
			1	30.00	1.45	0.25	10.88		
	Bottom Vent Concrete		1	13.00	1.45	0.25	4.71		

o	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	BB Road at Railway Underpass near Police Station								
	Rhs		1	30.00	1.00	0.15	4.50		
			1	19.00	1.00	0.15	2.85		
	Lhs		1	30.00	1.00	0.15	4.50		
			1	15.00	1.00	0.15	2.25		
	New RCC Drain								
	Bharath Gowda Layout								
	Bharath Gowda Layout Main Road from Winmore Academy to 2nd Cross Road								
		Lhs	1	46.00	1.10	0.150	7.59		
		Rhs	1	60.00	1.10	0.150	9.90		
	1st Cross Road from Layout Main Road to SS Elite Apartment								
		Lhs	1	160.40	1.10	0.150	26.47		
		Rhs	1	160.40	1.10	0.150	26.47		
	2nd Cross Road from Layout Main Road to Dead end								
		Lhs	1	115.00	1.10	0.150	18.98		
		Rhs	1	115.00	1.10	0.150	18.98		
	Park Parallel Road from Winmore Academy								
		Rhs	1	102.00	1.10	0.150	16.83		
		Lhs	1	101.00	1.10	0.150	16.67		
	Culvert In Layout Main Road		1	7.50	1.26	0.150	1.42		
	Ayyappa Temple Surrounding								
	Road-1 from NH-7 Service Road to SWD								
		Rhs	1	86.00	0.95	0.15	12.26		
		Rhs	1	245.00	0.85	0.15	31.24		
	Road-2								
		Rhs	1	126.00	1.20	0.15	22.68		
	Road-3 from Road-2 to Road-4								
		Rhs	1	27.00	0.95	0.15	3.85		
	Road-4								
		Rhs	1	89.00	1.20	0.15	16.02		
		LHS	1	95.00	0.95	0.15	13.54		
	Road-5								
		Rhs	1	152.00	1.20	0.15	27.36		
		Lhs	1	152.00	1.20	0.15	27.36		
	Culvert								
	In Road-1		1	4.50	1.30	0.15	0.88		
	In Road-1		1	5.00	1.30	0.15	0.98		
	In Road-2		1	5.70	1.30	0.15	1.11		
	In Road-4		1	6.20	1.30	0.15	1.21		
		Total Quantity							
		Total Schedule B Quantity					425.42		
		Quantity Upto 125%					324.80		
							425.42	5780.92	2459304.53

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing. complete but excluding cost of reinforcement as per specifications.Specification No. KBS 4.1, 4.6.								
		Cum							
	Bottom Vent Concrete								
	BB Road at Railway Underpass near Police Station								
	Rhs		1	30.00	1.00	0.15	4.50		
			1	19.00	1.00	0.15	2.85		
	Lhs		1	30.00	1.00	0.15	4.50		
			1	15.00	1.00	0.15	2.25		
	Road Side								
	BB Road at Railway Underpass near Police Station								
	LHS		1	30.00	0.20	0.10	0.60		
			1	30.00	0.20	0.08	0.45		
			1	30.00	0.20	0.08	0.45		
			1	4.00	0.20	0.10	0.08		
	Below Bridge portion		1	30.00	0.20	0.08	0.45		
			1	18.50	0.20	0.08	0.28		
			1	30.00	0.20	0.10	0.60		
			1	30.00	0.20	0.08	0.45		
	RHS		1	4.80	0.20	0.10	0.10		
			1	30.00	0.20	0.08	0.45		
			1	30.00	0.20	0.10	0.60		
			1	30.00	0.20	0.08	0.45		
	Below Bridge portion		1	8.00	0.20	0.08	0.12		
			1	1.00	0.20	0.08	0.02		
			1	30.00	0.20	0.10	0.60		
			1	14.50	0.20	0.08	0.22		
			1	30.00	0.20	0.08	0.45		
			1	12.00	0.20	0.08	0.18		
	New RCC Drain								
	Raft								
	Bharath Gowda Layout								
	Bharath Gowda Layout Main Road from Winmore Academy to 2nd Cross Road								
		Lhs	1	46.00	0.90	0.150	6.21		
		Rhs	1	60.00	0.90	0.150	8.10		
	1st Cross Road from Layout Main Road to SS Elite Apartment								
		Lhs	1	160.40	0.90	0.150	21.65		
		Rhs	1	160.40	0.90	0.150	21.65		
	2nd Cross Road from Layout Main Road to Dead end								
		Lhs	1	115.00	0.90	0.150	15.53		
		Rhs	1	115.00	0.90	0.150	15.53		
	Park Parallel Road from Winmore Academy								

Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
	Rhs	1	102.00	0.90	0.150	13.77		
	Lhs	1	101.00	0.90	0.150	13.64		
Culvert In Layout Main Road								
Ayyappa Temple Surrounding		1	7.50	1.20	0.300	2.70		
Road-1 from NH-7 Service Road to SWD								
	Rhs	1	86.00	0.75	0.150	9.68		
	Rhs	1	245.00	0.65	0.150	23.89		
Road-2								
	Rhs	1	126.00	0.90	0.150	17.01		
Road-3 from Road-2 to Road-4								
	Rhs	1	27.00	0.75	0.150	3.04		
Road-4								
	Rhs	1	89.00	0.90	0.150	12.02		
	LHS	1	95.00	0.90	0.150	12.83		
Road-5								
	Rhs	1	152.00	0.90	0.150	20.52		
	Lhs	1	152.00	0.90	0.150	20.52		
Culvert								
In Road-1								
In Road-1		1	4.50	1.10	0.200	0.99		
In Road-2		1	5.00	1.10	0.200	1.10		
In Road-4		1	5.70	1.10	0.200	1.25		
Wall		1	6.20	1.10	0.200	1.36		
Bharath Gowda Layout								
Bharath Gowda Layout Main Road from Winmore Academy to 2nd Cross Road								
	Lhs	2	46.00	0.15	0.750	10.35		
	Rhs	2	60.00	0.15	0.800	14.40		
1st Cross Road from Layout Main Road to SS Elite Apartment								
	Lhs	2	160.40	0.15	0.650	31.28		
	Rhs	2	160.40	0.15	0.650	31.28		
2nd Cross Road from Layout Main Road to Dead end								
	Lhs	2	115.00	0.15	0.650	22.43		
	Rhs	2	115.00	0.15	0.650	22.43		
Park Parallel Road from Winmore Academy								
	Rhs	2	102.00	0.15	0.600	18.36		
	Lhs	2	101.00	0.15	0.600	18.18		
Culvert In Layout Main Road								
Ayyappa Temple Surrounding		2	7.50	0.30	0.600	2.70		
Road-1 from NH-7 Service Road to SWD								
	Rhs	2	86.00	0.15	0.550	14.19		
	Rhs	2	245.00	0.10	0.450	22.05		
Road-2								
	Rhs	2	126.00	0.15	0.500	18.90		
Road-3 from Road-2 to Road-4								

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		Rhs	2	27.00	0.15	0.500	4.05		
	Road-4								
		Rhs	2	89.00	0.15	0.500	13.35		
		LHS	2	95.00	0.15	0.500	14.25		
	Road-5								
		Rhs	2	152.00	0.15	0.600	27.36		
		Lhs	2	152.00	0.15	0.600	27.36		
	Culvert								
	In Road-1		2	4.50	0.25	0.500	1.13		
	In Road-1		2	5.00	0.25	0.500	1.25		
	In Road-2		2	5.70	0.25	0.500	1.43		
	In Road-4		2	6.20	0.25	0.500	1.55		
	Total Quantity						**581.86**		
	Total Schedule B Quantity						**556.41**		
	Quantity Upto 125%						**581.86**	**6298.47**	**3664846.65**
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								
		Sqm							
	New RCC Drain								
	Bharath Gowda Layout								
	Bharath Gowda Layout Main Road from Winmore Academy to 2nd Cross Road								
		Lhs	4	46.00		0.75	138.00		
		Rhs	4	60.00		0.80	192.00		
	1st Cross Road from Layout Main Road to SS Elite Apartment								
		Lhs	4	160.40		0.60	384.96		
		Rhs	4	160.40		0.60	384.96		
	2nd Cross Road from Layout Main Road to Dead end								
		Lhs	4	115.00		0.60	276.00		
		Rhs	4	115.00		0.60	276.00		
	Park Parallel Road from Winmore Academy								
		Rhs	4	102.00		0.60	244.80		
		Lhs	4	101.00		0.60	242.40		
	Culvert In Layout Main Road		4	7.50		0.60	18.00		
	Ayyappa Temple Surrounding								
	Road-1 from NH-7 Service Road to SWD								
		Rhs	4	86.00		0.55	189.20		
		Rhs	4	245.00		0.45	441.00		
	Road-2								
		Rhs	4	126.00		0.50	252.00		
	Road-3 from Road-2 to Road-4								
		Rhs	4	27.00		0.50	54.00		

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Road-4								
		Rhs	4	89.00		0.50	178.00		
		LHS	4	95.00		0.50	190.00		
	Road-5								
		Rhs	4	152.00		0.60	364.80		
		Lhs	4	152.00		0.60	364.80		
	Culvert								
	In Road-1		4	4.50		0.500	9.00		
	In Road-1		4	5.00		0.500	10.00		
	In Road-2		4	5.70		0.500	11.40		
	In Road-4		4	6.20		0.500	12.40		
	Total Quantity						**4233.72**		
	Total Schedule B Quantity						**4202.40**		
	Quantity Upto 125%						**4233.72**	**398.45**	**1686925.73**
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work TMT bars Fe500 including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3								
		Tonne							
	RCC Drain 60Kgs		1	552.31		0.06	33.14		
	RCC Culvert 90Kgs		1	15.46		0.09	1.39		
	For Drain Vent 10Kgs		1	14.10		0.010	0.14		
	Total Quantity						**34.67**		
	Total Schedule B Quantity						**33.59**		
	Quantity Upto 125%						**34.67**	**78985.16**	**2738456.57**
6	KSRB 5.2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 - do - cement mortar 1:6 KBS 5.1.13								
		Cum							
	Total Quantity								
	Total Schedule B Quantity						**0.00**		
	Quantity Upto 125%						**40.68**		
							0.00	**5115.35**	**0.00**
7	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		Cum							
	For Coping								
	BB Road at Railway Underpass near Police Station								
	Rhs		2	30.00	0.20	0.10	1.20		
			2	19.00	0.20	0.10	0.76		
	Lhs		2	30.00	0.20	0.10	1.20		
			2	15.00	0.22	0.10	0.66		
	Total Quantity						**3.82**		
	Total Schedule B Quantity						**16.48**		
	Quantity Upto 125%						**3.82**	**6034.69**	**23052.52**
8	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge Data Rate								
		Sqm							
	For Drain Covering								
	Bharath Gowda Layout								
	Bharath Gowda Layout Main Road from Winmore Academy to 2nd Cross Road								
		Lhs	1	46.00	0.90		41.40		
		Rhs	1	60.00	0.90		54.00		
	1st Cross Road from Layout Main Road to SS Elite Apartment								
		Lhs	1	160.40	0.90		144.36		
		Rhs	1	160.40	0.90		144.36		
	2nd Cross Road from Layout Main Road to Dead end								
		Lhs	1	115.00	0.90		103.50		
		Rhs	1	115.00	0.90		103.50		
	Park Parallel Road from Winmore Academy								
		Rhs	1	102.00	0.90		91.80		
		Lhs	1	101.00	0.90		90.90		
	Ayyappa Temple Surrounding								
	Road-1 from NH-7 Service Road to SWD								
		Rhs	1	86.00	0.75		64.50		
		Rhs	1	245.00	0.60		147.00		
	Road-2								
		Rhs	1	126.00	0.90		113.40		
	Road-3 from Road-2 to Road-4								
		Rhs	1	27.00	0.75		20.25		
	Road-4								
		Rhs	1	89.00	0.90		80.10		
		LHS	1	95.00	0.75		71.25		
	Road-5								
		Rhs	1	152.00	0.90		136.80		
		Lhs	1	152.00	0.90		136.80		

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Total Quantity						**1543.92**		
	Total Schedule B Quantity						**1542.00**		
	Quantity Upto 125%						**1543.92**	**2453.85**	**3788548.09**
9	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge Data Rate								
		Sqm							
	Culvert Covering								
	Culvert In Layout Main Road		1	7.50	1.20		9.00		
	Ayyappa Temple Surrounding								
	In Road-1		1	4.50	1.20		5.40		
	In Road-1		1	5.00	1.20		6.00		
	In Road-2		1	5.70	1.20		6.84		
	In Road-4		1	3.30	1.20		3.96		
	Total Quantity						**31.20**		
	Total Schedule B Quantity						**31.20**		
	Quantity Upto 125%						**31.20**	**5688.90**	**177493.68**
10	Fabrication, providing and erecting in position Hot dip galvanised Grill using 72 x72 x 4mm Sq. GI Pipe frame with top pipe bending in heavy hydraulic press with sand packing and hot bending to form double arch as per drawing profile. 20mm hot dip galvanised Sq rod for verticals at 150mm c/c, as shown in the drawing including providing ho dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 72x12mm and 50x6mm arch bent to hot dip galvanised flats the work is inclusive of troughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq rods, GI gorged designs etc., heavy duty hinges are made out of 75mm solid sq block assembled with 20mm dia bearing in three places for each flop. Heavy duty locking arrangements at two places including cost of labour, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the engineer-in-charge of the work.								
		Sqm							
	Total Quantity						**0.00**		
	Total Schedule B Quantity						**378.60**		
	Quantity Upto 125%						**0.00**	**9601.20**	**0.00**
11	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		Nos							
	For Shoulders								
	BB Road at Railway Underpass near Police Station								
	Lhs								
	Front of BESCOM Office		1	30.00			30.00		
			1	15.00			15.00		

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			1	10.00			10.00		
			1	30.00			30.00		
			1	30.00			30.00		
			1	30.00			30.00		
			1	4.00			4.00		
			1	30.00			30.00		
			1	30.00			30.00		
			1	5.00			5.00		
	Rhs								
			1	30.00			30.00		
			1	30.00			30.00		
			1	30.00			30.00		
			1	8.00			8.00		
			1	30.00			30.00		
			1	13.00			13.00		
							355.00		
	Total Quantity						789.00		
	Total Schedule B Quantity						700.00		
	Quantity Upto 125%						789.00	454.10	358284.90
12	KSRB 14.6 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS								
		Sqm							
	Total Quantity						0.00		
	Total Schedule B Quantity						151.88		
	Quantity Upto 125%						0.00	1171.99	0.00
13	Supply, Fabrication, Painting and Fixinf of Pre-Cast Bollards for footpath and Property Edge/ Meadians etc and any other items as specified in drawings or as approved by Engineer Incharge								
		Nos							
	Total Quantity						0.00		
	Total Schedule B Quantity						8.00		
	Quantity Upto 125%						0.00	1302.00	0.00
14	KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.								
		Quantial							
	Total Quantity								
	Total Schedule B Quantity						0.00		
	Quantity Upto 125%						6.00		
							0.00	7999.13	0.00

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
15	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.MORTH Specification No.301								
		Cum							
	For CC Road								
	BB Road at Railway Underpass near Police Station								
	Right Side (RMZ Side)								
			1	12.00	8.00	0.30	28.80		
			1	6.00	1.50	0.30	2.70		
	Ayyappa Temple Surrounding								
	Road-2 from Airport Road Service Road to Daed End(SWD)								
			1	204.00	5.10	0.30	312.12		
	Road-3 from Road-2 to Road-4								
			1	28.00	4.50	0.30	37.80		
	Road-4								
			1	30.00	4.50	0.30	40.50		
	Total Quantity						421.92		
	Total Schedule B Quantity						391.20		
	Quantity Upto 125%						421.92	45.63	19252.21
16	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3								
		Sqm							
	Ayyappa Temple Surrounding								
	Road-2 from Airport Road Service Road to Daed End(SWD)								
			1	204.00	5.10		1040.40		
	Road-3 from Road-2 to Road-4								
			1	28.00	4.50		126.00		
	Road-4								
			1	30.00	4.50		135.00		
	Total Quantity						1184.00		
	Total Schedule B Quantity						1184.00		
	Quantity Upto 125%						1184.00	6.68	7909.12
17	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		Cum							
	For CC Road								
	Ayyappa Temple Surrounding								

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Road-2 from Airport Road Service Road to Daed End(SWD)								
			1	204.00	5.10	0.15	156.06		
	Road-3 from Road-2 to Road-4								
			1	28.00	4.50	0.15	18.90		
	Road-4								
			1	30.00	4.50	0.15	0.00		
	Total Quantity						**174.96**		
	Total Schedule B Quantity						**177.60**		
	Quantity Upto 125%						**174.96**	**2094.67**	**366483.46**
18	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver.								
		Cum							
	For CC Road								
	BB Road at Railway Underpass near Police Station								
	Right Side (RMZ Side)								
			1	12.00	8.00	0.15	14.40		
			1	6.00	1.50	0.15	1.35		
	Ayyappa Temple Surrounding								
	Road-2 from Airport Road Service Road to Daed End(SWD)								
			1	204.00	5.10	0.15	156.06		
	Road-3 from Road-2 to Road-4								
			1	28.00	4.50	0.15	18.90		
	Road-4								
			1	30.00	4.50	0.15	20.25		
	Total Quantity								
	Total Schedule B Quantity						**210.96**		
	Quantity Upto 125%						**195.60**		
							210.96	**4079.15**	**860537.48**

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
19	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.								
		Cum							
	For CC Road								
	BB Road at Railway Underpass near Police Station								
	Right Side (RMZ Side)								
			1	12.00	8.00	0.15	14.40		
			1	6.00	1.50	0.15	1.35		
	Ayyappa Temple Surrounding								
	Road-2 from Airport Road Service Road to Daed End(SWD)								
			1	204.00	5.10	0.15	156.06		
	Road-3 from Road-2 to Road-4								
			1	28.00	4.50	0.15	18.90		
	Road-4								
			1	30.00	4.50	0.15	20.25		
	Total Quantity						**210.96**		
	Total Schedule B Quantity						**195.60**		
	Quantity Upto 125%						**210.96**	**5471.51**	**1154269.75**
	EIRL-Items								
E1	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10 cms thick (KPWD SR 2018-19, Page No.27, Item No.5.31.2)								
		Sqm							
	For Footpath								
	BB Road at Railway Underpass near Police Station								
	LHS		1	30.00	1.45		43.50		
			1	30.00	1.45		43.50		
			1	30.00	1.45		43.50		
			1	4.00	1.45		5.80		
	Below Bridge portion		1	30.00	1.70		51.00		
			1	18.50	1.70		31.45		
			1	30.00	1.40		42.00		
			1	30.00	1.40		42.00		
			1	4.80	1.40		6.72		
	RHS		1	30.00	1.40		42.00		

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			1	30.00	1.40		42.00		
			1	30.00	1.40		42.00		
			1	8.00	1.40		11.20		
	Below Bridge portion		1	1.00	1.60		1.60		
			1	30.00	1.70		51.00		
			1	14.50	1.70		24.65		
			1	30.00	1.45		43.50		
			1	12.00	1.45		17.40		
	Total Quantity						584.82	1015.06	593625.05
	Basic rate	***912.00***							
	Area Wieght age @ 6%	***54.72***							
	Sub Total Rate in Rs	***966.72***							
	Tender Premium 5% above	***48.34***							
	Total Rate in Rs	***1015.06***							
E2	KSRB 5-8.1 : Providing two line dressing to granite stone slab /granite stone masonry as per specifications. KBS 5.1.13 (KPWD SR 2018-19, Page No.26, Item No.5.18)								
		Sqm							
	For Footpath								
	BB Road at Railway Underpass near Police Station								
	LHS		1	30.00	1.45		43.50		
			1	30.00	1.45		43.50		
			1	30.00	1.45		43.50		
			1	4.00	1.45		5.80		
	Below Bridge portion		1	30.00	1.70		51.00		
			1	18.50	1.70		31.45		
			1	30.00	1.40		42.00		
			1	30.00	1.40		42.00		
	RHS		1	4.80	1.40		6.72		
			1	30.00	1.40		42.00		
			1	30.00	1.40		42.00		
			1	30.00	1.40		42.00		
	Below Bridge portion		1	8.00	1.40		11.20		
			1	1.00	1.60		1.60		
			1	30.00	1.70		51.00		
			1	14.50	1.70		24.65		
			1	30.00	1.45		43.50		
			1	12.00	1.45		17.40		
	Total Quantity						584.82	1663.94	973102.47
	Basic rate	***1495.00***							
	Area Wieght age @ 6%	***89.70***							
	Sub Total Rate in Rs	***1584.70***							
	Tender Premium 5% above	***79.24***							
	Total Rate in Rs	***1663.94***							
E3	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block of size 400x200x200mm density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 (KPWD SR 2018-19, Page No.27, Item No.5.27.1)								

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		Sqm							
	For Drain Flagging								
	BB Road Railway Under Pass								
	LHS		2	30.00		0.60	36.00		
			2	15.00		0.60	18.00		
	RHS		2	30.00		0.60	36.00		
			2	19.00		0.60	22.80		
		Total Quantity					112.80	1015.06	114498.32
	Basic rate	***912.00***							
	Area Wieght age @ 6%	***54.72***							
	Sub Total Rate in Rs	***966.72***							
	Tender Premium 5% above	***48.34***							
	Total Rate in Rs	***1015.06***							
E4	KSRB15-3 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (KPWD SR 2018-19, Page No.115, Item No.15.12)								
		Sqm							
	On Road Side								
	BB Road Railway Under Pass								
	LHS		1	30.00		0.40	12.00		
			1	15.00		0.40	6.00		
	RHS		1	30.00		0.40	12.00		
			1	19.00		0.40	7.60		
		Total Quantity					37.60	260.44	9792.62
	Basic rate	***234.00***							
	Area Wieght age @ 6%	***14.04***							
	Sub Total Rate in Rs	***248.04***							
	Tender Premium 5% above	***12.40***							
	Total Rate in Rs	***260.44***							
E5	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (KPWD SR 2018-19, Page No.180, Item No.24.1)								
		Sqm							
	Kerb Painting								
	BB Road at Railway Underpass near Police Station								
	Lhs								
	Front of BESCOM Office		1	30.00		0.30	9.00		
			1	15.00		0.30	4.50		
			1	10.00		0.30	3.00		
			1	30.00		0.30	9.00		
			1	30.00		0.30	9.00		

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			1	30.00		0.30	9.00		
			1	4.00		0.30	1.20		
			1	30.00		0.30	9.00		
			1	30.00		0.30	9.00		
			1	5.00		0.30	1.50		
	Rhs								
			1	30.00		0.30	9.00		
			1	30.00		0.30	9.00		
			1	30.00		0.30	9.00		
			1	8.00		0.30	2.40		
			1	30.00		0.30	9.00		
			1	13.00		0.30	3.90		
	Total Quantity						106.50	89.04	9482.76
	Basic rate	***80.00***							
	Area Wieght age @ 6%	***4.80***							
	Sub Total Rate in Rs	***84.80***							
	Tender Premium 5% above	***4.24***							
	Total Rate in Rs	***89.04***							
E6	Providing and fixing stainless steel 304 grade for staircase railings, balconies, ramps, with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of and electrical charges, etc., complete as per specifications. (KPWD SR 2018-19, Page No.45, Item No.7.38)								
		Sqm							
	For Footpath								
	BB Road at Railway Underpass near Police Station								
	LHS								
			1	30.00		1.60	48.00		
			1	30.00		1.60	48.00		
			1	30.00		1.60	48.00		
			1	4.00		1.60	6.40		
			1	30.00		1.60	48.00		
			1	9.50		1.60	15.20		
	Total Quantity						213.60	6701.37	1431413.27
	Basic rate	***6021.00***							
	Area Wieght age @ 6%	***361.26***							
	Sub Total Rate in Rs	***6382.26***							
	Tender Premium 5% above	***319.11***							
	Total Rate in Rs	***6701.37***							

Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
							Total Construction Amount	20888828.00
							Add GST Charges 12%	2506659.00
							Sub Total	23395487.00
							Miscellaneous and unforeseen charges etc.L.S	3181.00
							Grand Total	23398668.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2018-19

Assistant Engineer
Ward No.01
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Technical Sanction
Accorded For 23395665/-
Head of A/c P3296
CER NO :.....16..... Dt:15.07.2020

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Administrative Sanction for Rs. 225.00 Lakhs
Two Crore Twenty Five Lakhs
only.
is accorded under head P-3296
.....M.H. Finance.....2019-20
Registered as CE No
to co... is contained in enclosed m... Subject
No. EE/YNK/BS/S/2019-20 Dt. 9.4.2020

Executive Engineer